

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): ~~Suspension~~ A suspension that can be used to generate a current of electrons, which suspension comprises a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 2 (Original): The suspension according to claim 1, comprising more ~~than~~ than one hollow particle.

Claim 3 (Original): The suspension according to claim 2, wherein the density of the hollow particles in the suspension is such that the majority of the hollow particles is in close contact to each other.

Claim 4 (Original): The suspension according to any of claims 1-3, wherein the hollow particle is a vesicle.

Claim 5 (Currently amended): The suspension according to ~~any of claims 1-4~~ claim 4, wherein the vesicle is a polymersome.

Claim 6 (Currently amended): The suspension according to ~~any of claims 1-5~~ claim 5, wherein the shell of the hollow particle is conductive.

Claim 7 (Currently amended): The suspension according to ~~any of claims 1-6~~ claim 6, wherein the hollow particle comprises conductive polymer.

Claim 8 (Currently amended): The suspension according to ~~any of claims 1-7~~ claim 7, wherein the hollow particle comprises a block-copolymer.

Claim 9 (Original): The suspension according to claim 8, wherein the block-copolymer comprises a hydrophobic polystyrene block and a hydrophilic polyisocyanopeptide.

Claim 10 (Currently amended): The suspension according to claim 8 ~~or 9~~, wherein the block-copolymer comprises polystyrene-*b*-poly(L-iscyanoalanine(2-thiophen-3-yl-ethyl)amide) (PS-PIAT).

Claim 11 (Original): The suspension according to claim 8, wherein side groups present on the block-copolymer are polymerized.

Claim 12 (Original): The suspension according to claim 10, wherein the thiophene side groups present in the side chain of polystyrene-*b*-poly(L-iscyanoalanine(2-thiophen-3-yl-ethyl)amide) are polymerized.

Claim 13 (Currently amended): The suspension according to ~~any of claims 1-~~ claim 1, wherein the polypeptide is linked to the inner side of the hollow particle.

Claim 14 (Currently amended): The suspension according to ~~any of claims 1-~~ claim 1, wherein the polypeptide is capable of participating in a chemical reaction or is capable in participating in the formation of a molecular structure that facilitates such reaction.

Claim 15 (Original): The suspension according to claim 14, wherein the chemical reaction is a redox reaction.

Claim 16 (Original): The suspension according to claim 14, wherein the chemical reaction is an oxidation.

Claim 17 (Currently amended): The suspension according to ~~any of claims 1-~~ claim 1, wherein the polypeptide is an enzyme.

Claim 18 (Original): The suspension according to claim 17, wherein the hollow particle is permeable to a substrate of the enzyme.

Claim 19 (Currently amended): The suspension according to claim 16 ~~or 17~~, wherein the enzyme is glucose oxidase.

Claim 20 (Original): The suspension according to claim 19, wherein the hollow particle is permeable to a substrate of glucose oxidase.

Claim 21 (Original): The suspension according to claim 20, wherein the hollow particle is permeable to glucose.

Claim 22 (Currently amended): The suspension according to ~~any of claims 1-24~~claim 1, wherein the hollow particle is embedded in a gel-like structure.

Claim 23 (Currently amended): The suspension according to ~~any of claims 1-22~~claim 1, wherein the hollow particle is embedded in a glucose solution.

Claim 24 (Currently amended): The suspension according to ~~any of claims 1-23~~claim 1, comprising a matrix, for example a linear conductive polymer, to contact the hollow particle.

Claim 25 (Currently amended): The suspension according to ~~any of claims 2-24~~claim 2, comprising a matrix, for example a linear conductive polymer, to cross-link at least one hollow particle to another hollow particle.

Claim 26 (Currently amended): The suspension according to ~~any of claims 1-25~~claim 1, comprising electron carriers such as ferrocene derivatives and viologen derivatives.

Claim 27 (Currently amended): ~~Use of the suspension according to any of claims 1-26, for the production of a~~A battery having an electrolyte suspension comprising a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 28 (Currently amended): ~~Use of the suspension according to any of claims 1-26, for the production of a~~A nano-battery for the use in combination with a microchip having an electrolyte suspension comprising a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 29 (Cancelled).

Claim 30 (Currently amended): A fuel cell, comprising: an anode compartment including an anode; a cathode compartment including a cathode; and disposed within said anode compartment, within said cathode compartment, or between said anode compartment and said cathode compartment, the suspension ~~according to any of the claims 1-26~~ comprising a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 31 (Currently amended): ~~Device~~ A device for detection of a solute ~~using the suspension according one of the claims 1-26~~ comprising a suspension comprising a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 32 (Currently amended): ~~Device~~ The device according to claim 31, wherein the solute is glucose.

Claim 33 (Currently amended): A ~~Method~~ method of producing electrical power, comprising ~~the use of the suspension according to any of claims 1-26~~ generating a current in a suspension comprising a polypeptide, wherein the polypeptide is entrapped in a hollow particle.

Claim 34 (Currently amended): A method for preparing ~~thea~~ a polypeptide suspension, wherein the polypeptide is entrapped in a hollow particle ~~according to any of claims 1-26~~, comprising the steps of:

- (a) making an aqueous solution of bis(2,2'-bipyridine)ruthenium(II)bis(pyrazolyl);
- (b) injecting a solution containing polystyrene-*b*-poly(L-isocyanoalanine(2-thiophen-3-yl-ethyl)amide) in THF into the solution made in step (a).

Claim 35 (Currently amended): The method according to claim 34, ~~that furthermore comprises~~ further comprising:

- (c) placing the dispersion made in step (b) at 60°C;
- (d) cooling the dispersion to room temperature; and
- (e) filter the dispersion of step (d) using a filter with a cutoff of 100 kDa.